



```
M A
     GCTGTTCCTCAAAATAATCTACAGGAGCAACTAGAACGTCACCAGAACACTTAATAAATTAAGTCTTTCAAA 160
    3 A V P Q N N L Q E Q L E R H S A R T L N N K L S L S K
     ACCAAAATTITCAGGTTTCACTTTTAAAAAGAAAACATCTTCAGATAACAATGTATCTGTAACTAATGTGTCAGTAGCAA
     PKFSGFTFKKKTSSDNNVSVTNVSVA
     AAACACCTGTATTAAGAAATAAAGATGTTAATGTTACCGAAGACTTTTCCTTCAGTGAACCTCTACCCAACACCACAAAT
   56 K T P V L R N K D V N V T E D F S F S E P L P N T T N
     CAGCAAAGGGTCAAGGACTTCTTTAAAAATGCTCCAGCAGGACAGGAAACACACAGGAGGTGGATCAAAATCATTATTGCC
   83 Q Q R V K D F F K N A P A G Q E T Q R G G S K S L L P
     AGATTTCTTGCAGACTCCGAAGGAAGTTGTATGCACTACCCAAAACACACCGACTGTAAAGAAATCCCGGGGATACTGCTC 480
  110 DFLQTPKEVVCTTQNTPTVKKSRDTA
     TCAAGAAATTAGAATTTAGTTCTTCACCAGATTCTTTAAGTACCATCAATGATTGGGATGATATGGATGACTTTGATACT 560
  135 L K K L E F S S S P D S L S T I N D W D D M D D F D T
     TCTGAGACTTCAAAATCATTTGTTACACCACCCCAAAGTCACTTTGTAAGAGTAAGCACTGCTCAGAAAT<u>CAA</u>AAAAGGG
  163 SETSKSFVTPPQSHFVRVSTAQK<del>S</del>KKG
    KRNFFKAQLYTTNTVKTDLPPPSSES
    AGCAAATAGATTTGACTGAGGAACAGAAGGATGACTCAGAATGGTTAAGCAGGGATGTGATTTGCATCGATGATGGCCCC
  216 E Q I D L T E E Q K D D S E W L S S D V I C I D D G P
    ATTGCTGAAGTGCATATAAATGAAGATGCTCAGGAAAGTGACTCTCTGAAAACTCATTTGGAAGATGAAAGAGATAATAG
  243 I A E V H I N E D A Q E S D S L K T H L E D E R D N S
    EKKKNLEEAELHSTEKVPCIEFDDDD
    ATGATACGGATTTTGTTCCACCTTCTCCAGAAGAAATTATTTCTGCTTCTTCTTCTTCAAAATGCCTTAGTACGTTA 1040
296 Y D T D F V P P S P E E I I S A S S S S K C L S T L
    AAGGACCITGACACATCTGACAGAAAAGAGGATGTTCTTAGCACATCAAAAGATCTTTTGTCAAAACCTGAGAAAATGAG 1120
j.
Jeseko
323 K D L D T S D R K E D V L S T S K D L L S K P E K M S
    TATGCAGGAGCTGAATCCAGAAACCAGCACAGACTGTGACGCTAGACAGATAAGTTTACAGCAGCAGCTTATTCATGTGA 1200
350 MQELNPETSTDCDARQISLQQQLIHV
    376 M E H I C K L I D T I P D D K L K L L D C G N E L L Q
    CAGCGGAACATAAGAAGGAAACTTCTAACGGAAGTAGATTTTAATAAAAGTGATGCCAGTCTTCTTGGCTCATTGTGGAG 1360

□ 403 Q R N I R R K L L T E V D F N K S D A S L L G S L W R

    ATACAGGCCTGATTCACTTGATGGCCCCTATGGAGGGTGATTCCTGCCCTACAGGGAATTCTATGAAGGAGTTAAATTTTT 1440
 430 Y R P D S L D G P M E G D S C P T G N S M K E L N F
    CACACCTTCCCTCAAATTCTGTTTCTCCTGGGGACTGTTTACTGACTACCACCCTAGGAAAGACAGGATTCTCTGCCACC 1520
456 S H L P S N S V S P G D C L L T T T L G K T G F S A T
    AGGAAGAATCTTTTTGAAAGGCCTTTATTCAATACCCATTTACAGAAGTCCTTTGTAAGTAGCAACTGGGCTGAAACACC 1600
 483 RKN_LFERPLFNTHLQKSFVSSNWAETP
    AAGACTAGGAAAAAAAAATGAAAGCTCTTATTTCCCAGGAAATGTTCTCACAAGCACTGCTGTGAAAGATCAGAATAAAC 1680
     R L G K K N E S S Y F P G N V L T S T A V K D Q N K
    ATACTGCTTCAATAAATGACTTAGAAAGAGAAACCCAACCTTCCTATGATATTTGATAATTTTGACATAGATGACTTTGAT 1760
 536 H T A S I N D L E R E T Q P S Y D I D N F D I D D F D
   563 D D D D W E D I M H N L A A S K S S T A A Y Q P I Ř E
   ĠŘPIŘŠVSEŘĹSSAKTDCLPVSŠTÁQ
   ATATAAACTTCTCAGAGTCAATTCAGAATTATACTGACAAGTCAGCACAAAATTTAGCATCCAGAAATCTGAAACATGAG 2000
 616 Ñ I N F S È S I Q N Y T D K S A Q N L A S R N L K H E
   CGTTTCCAAAGTCTTAGTTTTCCTCATACAAAGGAAATGATGAAGATTTTTCATAAAAATTTGGCCTGCATAATTTTAG 2080
 643 R F Q Š L S F P H T K E M M K I F H K K F G L H N F R
   AACTAATCHGCTAGAGGCGATCAATGCTGCACTGCTTGGTGAAGACTGTTTTATCCTGATGCCGACTGGAGGTGGTAAGA 2160
    T N Q L E A I N A A L L G E D C F I L M P T G G G K
   GTTTGTGTTACCAGCTCCCTGCCTGTGTTTCTCCTGGGGTCACTGTTGTCATTTCTCCCTTGAGATCACTTATCGTAGAT 2240
 696 S L C Y Q L P A C V S P G V T V V I S P L R S L I V D
   723 Q V Q K L T S L D I P A T Y L T G D K T D S E A T N I
   TTACCTCCAGTTATCAAAAAAAGACCCAATCATAAAACTTCTATATGTCACTCCAGAAAAGATCTGTGCAAGTAACAGAC 2400
    Y L Q L S K K D P I I K L L Y V T P E K I C A S N R
   776 L I S T L E N L Y E R K L L A R F V I D E A H C V S Q
```

```
TGGGGACATGATTTTCGTCAAGATTACAAAAGAATGAATATGCTTCGCCAGAAGTTTCCTTCTGTTCCGGTCATGGCTCT 2560
  803 W G H D F R Q D Y K R M N M L R Q K F P S V P V M A L
    TACGGCCACAGCTAATCCCAGGGTACAGAAGGACATTCTCAGACTCAGACCTCAGGTGTTTAGCATGA 2640
     TATANPRVQKDILTQLKILRPQVFSM
    GCTTTAACAGACATAATCTGAAATACTATGTATTACCGAAAAAGCCTAAAAAGGTGGCATTTGATTGCCTAGAATGGATC 2720
  856 S F N R H N L K Y Y V L P K K P K K V A F D C L E W I
    AGAAAGCACCACCATATGATTCAGGGATAATTTACTGCCTCTCCAGGCGAGAATGTGACACCATGGCTGACACGTTACA 2800
 883 R K H H P Y D S G I I Y C L S R R E C D T M A D T L Q
    GAGAGATGGGCTCGCTCGCTTACCATGCTCGCCTCAGTGATTCTGCCAGAGATGAAGTGCAGCAGAAGTGGATTA 2880
     R D G L A A L A Y H A G L S D S A R D E V Q Q K W I
    ATCAGGATGGCTGTCAGGTTATCTGTGCTACAATTGCATTTGGAATGGGGATTGACAAACCGGACGTGCGATTTGTGATT 2960
 936 N Q D G C Q V I C A T I A F G M G I D K P D V R F V I
    CATGCATCTCCCTAAATCTGTGGAGGGTTACTACCAAGAATCTGGCAGAGCTGGAAGAGATGGGGAAATATCTCACTG 3040
 963 HASLPKSVEGYYQESGRAGRDGEISHC
    CCTGCTTTTCTATACCTATCATGATGTGACCAGACTGAAAAGACTTATAATGATGGAAAAGATGGAAACCATCATACAA 3120
    L L F Y T Y H D V T R L K R L I M M E K D G N H H T
    GAGAAACTCACTTCAATAATTTTGTATAGCATGGTACATTACTGTGAAAATATAACGGAATGCAGGAGAATACAGCTTTTG 3200
1016 R E T H F N N L Y S M V H Y C E N I T E C R R I Q L L
    GCCTACTTTGGTGAAAATGGATTTAATCCTGATTTTTGTAAGAAACACCCAGATGTTTCTTGTGATAATTGCTGTAAAAC 3280
1043 AYFGENGFNPDFCKKHPDVSCDNCCKT
    AAAGGATTATAAAACAAGAGATGTGACCGATGTGAAAAGTATTGTAAGATTTGTTCAAGAACATAGTTCATCACAAG 3360
    K D Y K T R D V T D D V K S I V R F V Q E H S S S Q
    GAATGAGAAATATAAAACATGTAGGTCCITCTGGAAGATTTACTATGAATATGCTGGTCGACATTTTCTTGGGGAGTAAG 3440
2096 G M R N I K H V G P S G R F T M N M L V D I F L G S K
   1123 SAKIQSGIFGKGSAYSRHNAERLFKKL
   GA1 ICTTGACAAGATTTTGGATGAAGACTTATATATCAATGCCAATGACCAGGGGATCGCTTATGTGATGCTCGGAAATA 3600
    ILDKILDEDLYINANDQAIAYVMLGN
   T176 K 'QTVLNGNLKVDFMETENSSSVKKQK
   GCC TTAGTAGCAAAAGTGTCTCAGAGGGAAGAGATGGTTAAAAAAATGTCTTGGAGAACTTACAGAAGTCTGCAAATCTCT 3760
1203 ALVAKVSQREEMVKKCLGELTEVCKSL
   CCCCAAAGTTTTTGGTGTCCATTACTTCAATATTTTTAATACCGTCACTCTCAAGAAGCTTGCAGAATCTTTATCTTCTG 3840
1230 GKVFGVHYFNIFNTVTLKKLAESLSS
   ATCCTGAGGTTTTGCTTCAAATTGATGGTGTTACTGAAGACAAACTGGAAAAATATGGTGCGGAAGTGATTTCAGTATTA 3920
1256 D P E V L L Q I D G V T E D K L E K Y G A E V I SV L
   CAGAAATACTCTGAATGGACATCGCCAGCTGAAGACAGTTCCCCAGGGATAAGCCTGTCCAGCAGCAGAGGCCCCGGAAG 4000
1283 Q K Y S E W T S P A E D S S P G I S L S S R G P G R
   AAGTGCCGCTGAGGAGCTTGACGAGGAAATACCCGTATCTTCCCACTACTTTGCAAGTAAAACCAGAAATGAAAGGAAGA 4080
    SAAEELDEEIPVSSHYFASKTRNERK
   GGAAAAAGATGCCAGCCTCCCAAAGGTCTAAGAGGAGAAAAACTGCTTCCAGTGGTTCCAAGGCAAAGGGGGGGTCTGCC 4160
1336 R K K M P A S Q R S K R R K T A S S G S K A K G G S A
   ACATGIAGAAAGATATCTTCCAAAACGAAATCCTCCAGCATCATTGGATCCAGTTCAGCCTCACATACTTCTCAAGCGAC 4240
1363 T C R K I S S K T K S S S I I G S S S A S H T S Q A T
   ATCAGGAGCCAATAGCAAATTGGGCATTATGGCTCCACCGAAGCCTATAAATAGACCGTTTCTTAAGCCTTCATATGCAT 4320
   S G A N S K L G I M A P P K P I N R P F L K P S Y A
```





